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Cisco Patents On-Line (CPOL)

Idea Details (#41685)

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Directory-enabled network elements

CPOL No.: 41685 Seq No.: 1414 Status: Pending Submitted: Modified:

Idea Details

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Type: Regular Division: Network Management Site: SAN JOSE SITE 5 Info: [Cisco Directory](#)

Background: CNS (Cisco Network Services) started working on Directory-enabled agents

under IOS for all cisco IOS devices (1600, 25xx, 4xxx, 26xx, 36xx, 7xxx, ls1010, 12xxx, and c5xxx w/ router switch module) in The project "CNS for IOS 12.0.4" is being released in IOS 12.0.4. The follow-up project "CNS for IOS II" is under way for IOS 12.0.5 release. There will be "CNS for IOS III" targeted for IOS 12.0.6, and "CNS for IOS IV" for IOS 12.1.1 release. Eventually all work will be ported into IOS ENA sometime late of this year or early next year.

Prior Art: ---

Summary: Directory-enabled Network Element is a state-of-art technology to enable smart, user-friendly, and network service managed network elements. By using the technology, well-defined network services offered by the network elements can be easily associated with users. A set of core Directory Services agents are built into router software (IOS) such that a router is authenticated to Directory automatically when it is powered up just like an ordinary workstation. Those agents provide network services on behave of the network services directly to authorized users.

Restatement: ---

Advantages: 1. ISPs love this technology. It will enable ISPs to offer comprehensive, flexible, and competitive network services to their customers.

2. It is an excellent solution to solve the scalability problems of configuring/provisioning network services. No manual provisioning would be required any more.

3. It will allow seamless integration with CNS/AD and MS/AD.

4. It will allow use of CNS DEN extensions which is DEN compliant.

Cisco Use: A. CNS Client for IOS is being released in IOS 12.0.4. It is part of the following images/platforms:

1. Enterprise Images

c5200-j-l 5200

c5300-j-mz 5300

c7200-js-mz 7200

rsp-jsv-mz 7505/07/13/RSP7000

c5rsm-jsv-mz Cisco 5000 (router module addon card for cat 5000)

2. Enterprise 40 Images:

c7200-js40-mz 7200

rsp-jsv40-mz 7505/07/13/RSP7000

3. Enterprise IPsec 56 Images:

c7200-js56i-mz 7200

rsp-jsv56i-mz 7505/07/13/RSP7000

c5rsm-jsv56i-mz 5000

4. Enterprise Plus

c2500-js-l 2501-2525/3011 (Access Pro)

c2600-js-mz 3620

c3540-js-mz 3640

c4000-js-mz 4000/4000-m

c4500-js-mz 4500/4700/4500-m

c5200-js-l 5200

c5300-js-mz 5300

5. Enterprise Plus 40

c2500-js40-l 2501-2525/2501CF-2502CF/ 2520CF-2523CF
/2520LF-2523LF

c2600-js40-mz 2610-2612

c4000-js40-mz 4000/4000-m

c4500-js40-mz 4500/4700/4500-m

c5300-js40-mz 5300

c3620-js40-mz 3620

c3640-js40-mz 3640

6. Enterprise Plus 56

c2500-js56-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
/2520LF-2523LF

c2600-js56-mz 2610-2612

7. Enterprise Plus IPsec 56

c2500-js56i-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
/2520LF-2523LF

c2600-js56i-mz 2610-2612
c3620-js56i-mz 3620
c3640-js56i-mz 3640
c4000-js56i-mz 4000/4000-m
c4500-js56i-mz 4500/4700/4500-m
c5300-js56i-mz 5300

8. Enterprise/APPN

c7200-ajs-mz 7200
rsp-ajsv-mz 7505/7505/7513/RSP7000

9. Enterprise/APPN 40

c7200-ajs40-mz 7200
rsp-ajsv40-mz 7505/07/13/RSP7000
c5rsm-ajsv40-mz 5000

10. Enterprise/APPN IPsec 56

c7200-ajs56i-mz 7200
rsp-ajsv56i-mz 7200 7505/07/13/RSP7000
c5rsm-ajsv56i-mz 5000

11. Enterprise/APPN Plus

c2600-ajs-mz 2610-2612
3620-ajs-mz 3620
c3640-ajs-mz 3640
c4000-ajs-mz 4000-m
c4500-ajs-mz 4500/4700/4500-m

12. Enterprise/APPN Plus 40

c2600-ajs40-mz 2610-2612
c3620-ajs40-mz 3620
c3640-ajs40-mz 3640
c4000-ajs40-mz 4000-m
c4500-ajs40-mz 4500/4700/4500-m

13. Enterprise/APPN Plus 56

c2600-ajs56-mz 2610-2612

14. Enterprise/APPN Plus IPsec 56

c3620-ajs56i-mz 3620
c2500-ajs56i-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
/2520LF-2523LF

c2600-ajs56i-mz 2610-2612
c3640-ajs56i-mz 3640
c400-ajs56i-mz 4000-m
c4500-ajs56i-mz 4500/4700/4500-m

15. Enterprise/APPN/DBCONN

c4500-aejs-mz Cisco 4500 /4700 /4500-M /4700-M
c7200-aejs-mz 7200
rsp-aejsv-mz 7505 /7507 /7513

16. Enterprise/APPN/DBCONN 40

c4500-aejs40-mz 4500 /4700 /4500-M /4700-M
c7200-aejs40-mz 7200
rsp-aejsv40-mz Cisco 7505 /7507 /7513 /RSP7000

17. Enterprise/APPN/DBCONN IPsec 56

c4500-aejs56i-mz 4500 /4700 /4500-M /4700-M

c7200-aejs56i-mz 7200
rsp-aejsv56i-mz 7505 /7507 /7513

18.Enterprise/FW Plus 56
c2500-jos56-l 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
/2520LF-2523LF

19.Enterprise/FW Plus IPSec 56
c2500-jos56i-l 2501-2525 /2501CF-2502CF /2520CF-2523CF
/2520LF-2523LF

20.Enterprise/VIP 40
c5rsm-jsv40-mz 5000

B. CNS for IOS II is being developed for IOS 12.0.5 release

C. CNS for IOS III is in part of IOS release road map

Public Use: not yet.

Detecting Use: Lucent started working on its Directory-enabled work using Novell's NDS for its switch products since late last year.

One should be able to detect its infringement by closely watching Lucent product announcements.

Standards: ---

Technologies:

- [IBM / SNA and Token Ring](#) > [IBM Networking](#) > [APPN](#)
- [IBM / SNA and Token Ring](#) > [IBM Networking](#) > [APPN+](#)
- [Network Management](#)

Networking Solutions:

- [Service Provider](#) > [Networking Solutions for Service Providers](#) > [Network Management Solutions for Service Providers](#)
- [Service Provider](#) > [Networking Solutions for Service Providers](#) > [Network Management Solutions for Service Providers](#) > [Cisco Internet OSS Service Management Applications](#)

Categorization Notes:

Categories Summary
[NM/S&A] [Rou] [Sw]

Supporting Documents:

• ---

Notes: Here are useful ENG docs:

ENG-23055: IOS CNS/AD Client Program Plan (12.0.4)
ENG-25670: IOS CNS/AD Client System Functional Specification

ENG-29746: CNS IOS 12.0.5T Program Plan

ENG-28376: CNS IOS Event Service Client System Functional Specification

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